

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- Claim 1) (Currently Amended) A method of enhancing signals in a mobile telecommunications system, the system comprising a base station and first and second receivers within a reception zone of the base station, each of said first and second receivers operable with a dedicated antenna, both of said first and second receivers being connected to a correlator, the method including:
- a) receiving, from the base station, a first plurality of signals at the first receiver at a first location, the first receiver having a good quality communications link with the base station;
 - b) receiving, from the base station, a second plurality of signals at the second receiver at a location separate from said first location;
 - c) correlating the received signals from both receivers to provide an estimated correlation therefor;
 - d) selecting areas from within the estimated correlation;
 - e) creating a replica of unwanted signals using said selection and said first plurality of signals; and
 - f) enhancing said second plurality of signals by eliminating said replica therefrom.

Claim 2) (Previously Presented) The method according to claim 1, wherein the estimated correlation comprises a correlation of propagation delay and frequency shift for the received signals.

Claim 3) (Previously Presented) The method according to claim 2, wherein step f) includes correlating said enhanced second plurality of signals with said first plurality of signals to produce an enhanced correlation.

Claim 4) (Previously Presented) The method according to claim 3, wherein the enhanced correlation comprises a correlation of propagation delay and frequency shift for the enhanced second plurality of signals and the first plurality of signals.

Claim 5) (Previously Presented) The method according to claim 1, wherein step f) includes correlating said enhanced second plurality of signals with said first plurality of signals to produce an enhanced correlation.

Claim 6) (Previously Presented) A method according to claim 5, wherein the enhanced correlation comprises a correlation of propagation delay and frequency shift for the enhanced second plurality of signals and the first plurality of signals.

Claim 7) (Currently Amended) A system for defining propagation characteristics of a cell within a mobile telecommunications network, the system comprising:

a base station, a first receiver and second receiver within a reception zone of the base station, the first and second receivers each being associated with an antenna and both being associated with a correlator, said [[a]] first receiver at a first location configured to receive a first plurality of signals from [[a]]the base station on the mobile telecommunications network, said first receiver having a good quality communications link with the base station[;]] said[[a]] second receiver at a second location separate from the first location configured to receive a second plurality of signals from the base station;

means for generating an estimated correlation of the first and second pluralities of signals;

means for selecting an area from within the estimated correlation;

means for creating a replica of an unwanted signal using the selected area and the first plurality of signals; and

means for enhancing the second plurality of signals by eliminating the replica of the unwanted signal therefrom.

Claim 8) (Previously Presented) The system according to claim 7, wherein the estimated correlation comprises a correlation of propagation delay and frequency shift for the first and second pluralities of signals.

Claim 9) (Previously Presented) The system according to claim 8, wherein the means for enhancing the second plurality of signals further includes means for correlating an

enhanced second plurality of signals with the first plurality of signals to produce an enhanced correlation.

Claim 10) (Previously Presented) The system according to claim 9, wherein the enhanced correlation comprises a correlation of propagation delay and frequency shift for the enhanced second plurality of signals and the first plurality of signals.

Claim 11) (Previously Presented) The system according to claim 7, wherein the means for enhancing the second plurality of signals further includes means for correlating an enhanced second plurality of signals with the first plurality of signals to produce an enhanced correlation.

Claim 12) (Previously Presented) The system according to claim 11, wherein the enhanced correlation comprises a correlation of propagation delay and frequency shift for the enhanced second plurality of signals and the first plurality of signals.